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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,291	10/30/2001	Tatiana Shpeisman	42390P11915	7767
7590 02/11/2005			EXAMINER	
Tom Van Zan	ndt OKOLOFF, TAYLOR	& ZAFMAN LLP	MOFIZ,	APU M
Seventh Floor			ART UNIT	PAPER NUMBER
12400 Wilshire Boulevard			2165	
Los Angeles, CA 90025-1026				

DATE MAILED: 02/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/016,291	SHPEISMAN ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Apu M Mofiz	2165				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS				
1. This communication is responsive to <u>10/12/2004</u> .						
2. The allowed claim(s) is/are <u>1-3,5-8,10-13,15-18,20-23,25-2</u>	28,30 and currently renumbered as 1	<u>-24</u> .				
3. The drawings filed on are accepted by the Examiner	г.					
 4. ☐ Acknowledgment is made of a claim for foreign priority uner a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this national stage application from the						
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:	•	•				
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply of this application.	complying with the requirements				
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' es reason(s) why the oath or declarate	S AMENDMENT or NOTICE OF tion is deficient.				
6. ⊠ CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) hereto or 2) to Paper No./Mail Date						
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date herein.						
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawin he header according to 37 CFR 1.121(c	ngs in the front (not the back) of				
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal Pa	atent Application (PTO-152)				
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summary					
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Date	Paper No./Mail Date <u>herein</u> . 7. Examiner's Amendment/Comment				
Paper No./Mail Date						
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⋈ Examiner's Stateme9. ⋈ Other Formal drawin	nt of Reasons for Allowance				
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DETAILED ACTION

1. Applicant's amendments and arguments filed November 10, 2004 have been fully considered and they are deemed to be persuasive.

EXAMINER'S AMENDMENT

- 2. Authorization for Examiner's Amendment was given by Tom Van Zandt in a telephone interview on 01/31/2005.
- 3. An examiner's amendment to the amendment filed 11/10/2004 appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. The application has been amended as follows:
- 1) In Claim 1, line 1 (i.e. line 1 of claim 1), inserted "computer implemented" after "A" and before "method"
- 2) In Claim 1, line 4 (i.e. line 4 of claim 1), deleted "." and inserted "; and" after instruction
- 3) In Claim 1, line 5 (i.e. line 5 of claim 1), inserted "forwarding a request for new memory and the live reference information to a compiler concurrently."
- 4) In Claim 5, line 1 (i.e. line 1 of claim 5), inserted "[" before "4" and after "claim"
- 5) In Claim 5, line 1 (i.e. line 1 of claim 5), inserted "]" after "4" and before "3"

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- 6) In Claim 6, line 1 (i.e. line 1 of claim 6), inserted "computer implemented" after "A" and before "method"
- 7) In Claim 6, line 5 (i.e. line 5 of claim 6), deleted "." and inserted "; and" after instruction
- 8) In Claim 6, line 6 (i.e. line 6 of claim 6), inserted "forwarding a request for new memory and the live reference information to a compiler concurrently."
- 9) In Claim 11, line 1 (i.e. line 1 of claim 11), inserted "computer implemented" after "An" and before "apparatus"
- 10) In Claim 11, line 1 (i.e. line 1 of claim 11), deleted "An" and inserted "A" before "apparatus"
- 11) In Claim 16, line 1 (i.e. line 1 of claim 16), inserted "computer implemented" after "An" and before "apparatus"
- 12) In Claim 16, line 1 (i.e. line 1 of claim 16), replaced "An" with "A"
- 13) In Claim 21, line 6 (i.e. line 6 of claim 21), deleted "." and inserted "; and" after instruction
- 14) In Claim 21, line 7 (i.e. line 7 of claim 21), inserted "forwarding a request for new memory and the live reference information to a compiler concurrently."

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15) In Claim 26, line 7 (i.e. line 7 of claim 26), deleted "." and inserted "; and" after instruction

- 16) In Claim 26, line 8 (i.e. line 8 of claim 26), inserted "forwarding a request for new memory and the live reference information to a compiler concurrently."
- 17) In the Abstract, delete the empty space between two paragraphs to create one continuous paragraph.

Allowable Subject Matter

5. Claims 1-3,5-8,10-13,15-18,20-23,25-28,30 are allowed over the prior art of record.

Reasons For Allowance

6. The following is an examiner's statement of reasons for Allowance:

Regarding Independent claims 1,6,11,16,21 and 26, Applicant's particular method and associated system for inserting at least one null operation instruction in an instruction set and recording live reference information for a garbage collection process within a data field of the null operation instruction and forwarding a request for new memory and the live reference information to a compiler concurrently in combination with other limitations of the claims, was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record.

The dependent claims, being further limiting to the independent claims, definite and enabled by the specification are also allowed.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Points of Contact

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Apu M. Mofiz whose telephone number is (571) 272-4080. The examiner can normally be reached on Monday – Thursday 8:00 A.M. to 4:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached at (571) 272-4083. The fax numbers for the group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-9600.

Apu M. Mofiz

Patekt Examiner

Technology Center 2100

January 31,2005